

What is a simple machine?

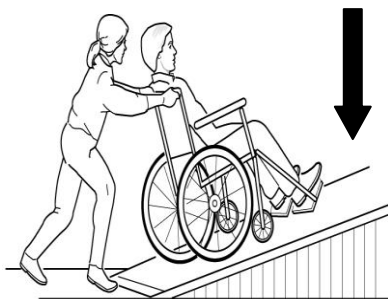
Directions: Write *true* if the statement is true. If the statement is false, **change the underlined term to make the statement true.**

- _____ 1. Simple machines do change the amount of work.
- _____ 2. A lever is made by putting two inclined planes together.
- _____ 3. A pair of scissors is an example of a simple machine.
- _____ 4. An effort force is a force that moves objects.
- _____ 5. Inclined planes make work easier by decreasing the distance needed to move something.
- _____ 6. A doorknob is an example of a wheel and axle.
- _____ 7. To do work on an object, it must move in the opposite direction as the force.
- _____ 8. Levers increase the amount of force needed to lift an object.
- _____ 9. A rope wrapped around a wheel is a wheel and axle.
- _____ 10. A wedge is a simple machine that cuts or separates objects.

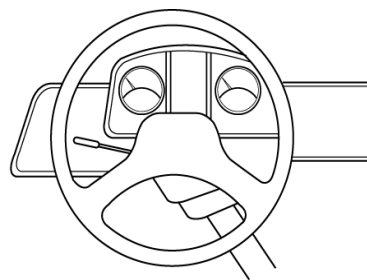
Directions: On the line provided under each diagram, write the type of simple machine that is being shown.



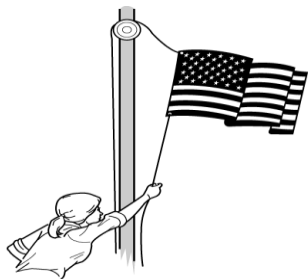
1. _____



2. _____



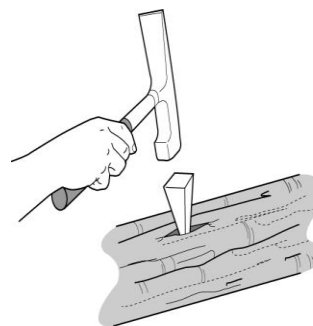
3. _____



4. _____



5. _____



6. _____

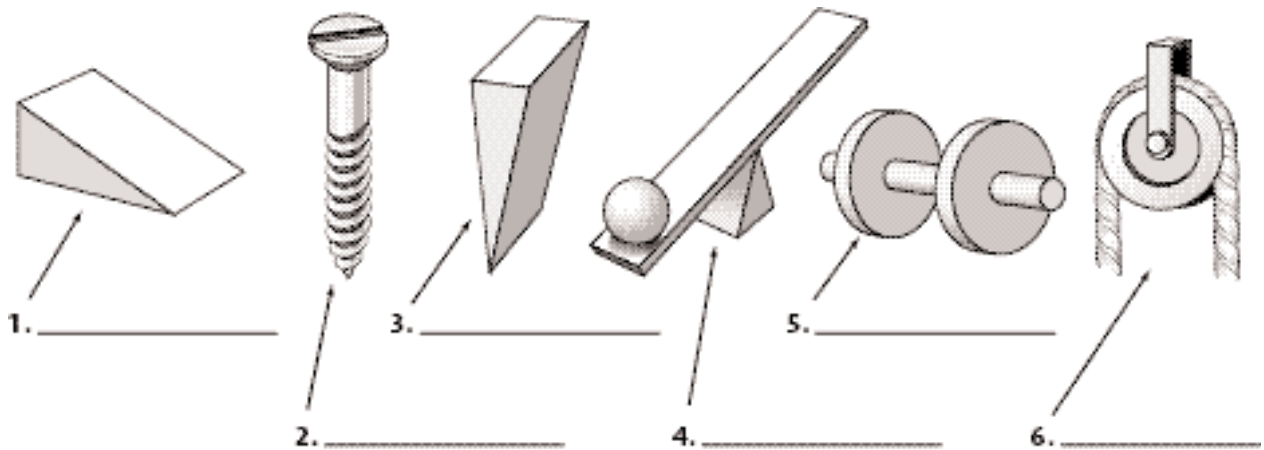


Directions: Use the following terms to label each simple machine.

lever
inclined plane

pulley
screw

wedge
wheels and axle



Directions: Circle the term that correctly completes each sentence.

7. Mechanical advantage is the number of times the input force is (divided/multiplied) by a machine.
8. The point about which a lever pivots is called a (fulcrum/rotator).
9. Wedges and screws are both (levers/inclined planes).
10. An inclined plane allows you to lift a heavy load by using (less/more) force over a greater distance.
11. One way to reduce friction and increase efficiency is to add (input/lubricant).
12. A wheel and axle consists of two circular objects of (different/identical) sizes that are attached in such a way that they rotate together.
13. When you use a machine, the output work can never be (greater/less) than the input work.
14. A fixed pulley changes the (distance/direction) of the force you exert.